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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/679,671	10/06/2003	Takuro Sugiura	9281-4688	4072	
7590 03/18/2005		→ BXAMINER			
Brinks Hofer Gilson & Lione			LEE, GUI	LEE, GUIYOUNG	
P.O. Box 10395 Chicago, IL 60610		ART UNIT	PAPER NUMBER		
			2875		
			DATE MAILED: 03/18/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/679,671	SUGIURA, TAKURO			
	Office Action Summary	Examiner	Art Unit			
		Guiyoung Lee	2875			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 🗌 R	1) Responsive to communication(s) filed on					
2a) 🗌 T	This action is FINAL. 2b)⊠ This action is non-final.					
· ·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
5)□ C 6)⊠ C 7)⊠ C	Claim(s) <u>1-15</u> is/are pending in the application a) Of the above claim(s) is/are withdrawalaim(s) is/are allowed. Claim(s) <u>1,5 and 15</u> is/are rejected. Claim(s) <u>2-4 and 6-14</u> is/are objected to. Claim(s) are subject to restriction and/or	awn from consideration.				
Applicatio	n Papers					
9) The specification is objected to by the Examiner.						
10) 🗌 TI	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority un	der 35 U.S.C. § 119					
a) 🔀 1 2 3	cknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority document Certified copies of the priority document Application from the International Bureate the attached detailed Office action for a list	its have been received. Its have been received in Applicationity documents have been received in Application (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
3) 🛛 Informa	of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 No(s)/Mail Date <u>1003</u>		Patent Application (PTO-152)			

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 5 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohwada et al. (US 6,692,134 B2).

Re claim 1: Ohwada discloses all the elements in claim 1 (See Fig. 2) except the limitation that "in a distribution of the depth of the groove with respect to the distance from the end surface disposed with the light emitting device to the groove, there are a first area where the depth of the groove linearly increased with respect to the distance from the end surface to the groove, and a second area formed apart from the light emitting device more than the first area in which an increasing rate of the depth of the groove with respect to the distance from the end surface is greater than that in the first area". Nakamura teaches a light guide plate having a plurality of grooves on the light guide plate, and the depth of the grooves in a first area is linearly increase with respect to the distance from the end surface to the groove (See the first part of the graph in Fig. 9A) and an increasing rate of the depth of the grooves in second area increase with respect to the distance from the end surface to the grooves is greater than that in the first area (See the

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second part of the graph in Fig. 9A). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the depth of the grooves in the Ohwada's light guide to increase exponentially in a second area as taught by Nakamura in order to provide sufficient quantity of light in the second area of the light guide so that the light guide plate can receive uniform luminescent over the entire area of the light guide plate.

Re claim 5: Nakamura teaches that the depth of the groove in the graph in Fig. 9A is given by an exponential function.

Re claim 15: Ohwada discloses that the lighting device is placed in the front of a LCD display unit (col. 7, lines 46-48).

Allowable Subject Matter

4. Claims 2-4 and 6-14 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record does not disclose a ratio of the depth of the groove formed on a side apart from the end surface to the depth of the other groove as set forth in claims 2-3. Further, The prior art of record does not disclose the expressions representing a distance from the end surface disposed with the light emitting device and a depth of the groove at a position as set forth in claims 4 and 6-8. Further, with regard to claim 9, the prior art of record does not disclose a third area of the grooves where the depth of the groove is constant irrespective of the distance from the end surface to the groove. Further, the prior art of record fails to disclose the limitation with regard to a pitch as set forth in claims 10-13. Further, with regard to claim 14, the prior art of

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record does not disclose that a vertex angle of the isosceles triangle of the groove is formed

ranging from an angle of 95 to 120 degrees.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Guiyoung Lee whose telephone number is 571-272-2374. The

examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Sandra O'Shea can be reached on 571-272-2378. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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